

0590
01/18

#2



OIPE

RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/021,963

TIME: 17:53:16

Input Set : N:\Crf3\RULE60\10021963.raw

Output Set: N:\CRF3\01172002\J021963.raw

1 <110> APPLICANT: Conklin, Darrell C.
 2 <120> TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN6
 3 <130> FILE REFERENCE: 98-40
 4 <140> CURRENT APPLICATION NUMBER: 10/021,963
 5 <141> CURRENT FILING DATE: 2001-12-14
 7 <150> PRIOR APPLICATION NUMBER: US/09/388,183
 8 <151> PRIOR FILING DATE: 1999-09-01
 11 <160> NUMBER OF SEQ ID NOS: 7
 12 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 177
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Homo sapiens
 18 <220> FEATURE:
 19 <221> NAME/KEY: CDS
 20 <222> LOCATION: (1)...(177)
 21 <400> SEQUENCE: 1

22	ggc ccc ggc gac gcc tgc gtg ctg cct gcc gtg cag ggc ccc tgc cgg	48
23	Gly Pro Gly Asp Ala Cys Val Leu Pro Ala Val Gln Gly Pro Cys Arg	
24	1 5 10 15	
25	ggc tgg gag ccg cgc tgg gcc tac agc ccg ctg ctg cag cag tgc cat	96
26	Gly Trp Glu Pro Arg Trp Ala Tyr Ser Pro Leu Leu Gln Gln Cys His	
27	20 25 30	
28	ccc ttc gtg tac ggt ggc tgc gag ggc aac ggc aac aac ttc cac agc	144
29	Pro Phe Val Tyr Gly Gly Cys Glu Gly Asn Gly Asn Asn Phe His Ser	
30	35 40 45	
31	cgc gag agc tgc gag gat gcc tgc ccc gtg ccg	177
32	Arg Glu Ser Cys Glu Asp Ala Cys Pro Val Pro	
33	50 55	
35 <210>	SEQ ID NO: 2	
36 <211>	LENGTH: 59	
37 <212>	TYPE: PRT	
38 <213>	ORGANISM: Homo sapiens	
39 <400>	SEQUENCE: 2	
40	Gly Pro Gly Asp Ala Cys Val Leu Pro Ala Val Gln Gly Pro Cys Arg	
41	1 5 10 15	
42	Gly Trp Glu Pro Arg Trp Ala Tyr Ser Pro Leu Leu Gln Gln Cys His	
43	20 25 30	
44	Pro Phe Val Tyr Gly Gly Cys Glu Gly Asn Gly Asn Asn Phe His Ser	
45	35 40 45	
46	Arg Glu Ser Cys Glu Asp Ala Cys Pro Val Pro	
47	50 55	
49 <210>	SEQ ID NO: 3	

ENTERED

RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/021,963

TIME: 17:53:16

Input Set : N:\Crf3\RULE60\10021963.raw

Output Set: N:\CRF3\01172002\J021963.raw

50 <211> LENGTH: 51
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Kunitz motif
55 <220> FEATURE:
56 <221> NAME/KEY: VARIANT
57 <222> LOCATION: (2)...(2)
58 <223> OTHER INFORMATION: Xaa is any residue except Asp, Cys, Gly, His, Met,
59 Pro or Trp
60 <220> FEATURE:
61 <221> NAME/KEY: VARIANT
62 <222> LOCATION: (3)...(3)
63 <223> OTHER INFORMATION: Xaa is Leu, Glu, Met, Gln, Phe, Ser, Thr, Ala or
64 Pro
65 <220> FEATURE:
66 <221> NAME/KEY: VARIANT
67 <222> LOCATION: (4)...(4)
68 <223> OTHER INFORMATION: Xaa is any residue except Arg, Cys, Met, Phe, Trp,
69 Tyr or Val
70 <220> FEATURE:
71 <221> NAME/KEY: VARIANT
72 <222> LOCATION: (5)...(5)
73 <223> OTHER INFORMATION: Xaa is any residue except Asn, Cys, Gln, Gly, Phe,
74 Ser, Thr or Trp
75 <220> FEATURE:
76 <221> NAME/KEY: VARIANT
77 <222> LOCATION: (6)...(6)
78 <223> OTHER INFORMATION: Xaa is Arg, Glu, Asn, Ala, Val, Asp, Lys, Ser, Tyr
79 or Met
80 <220> FEATURE:
81 <221> NAME/KEY: VARIANT
82 <222> LOCATION: (7)...(7)
83 <223> OTHER INFORMATION: Xaa is any residue except Asn, Cys, Gly, His, Leu,
84 Met, Phe or Trp
85 <220> FEATURE:
86 <221> NAME/KEY: VARIANT
87 <222> LOCATION: (8)...(8)
88 <223> OTHER INFORMATION: Xaa is Gly or Glu
89 <220> FEATURE:
90 <221> NAME/KEY: VARIANT
91 <222> LOCATION: (9)...(9)
92 <223> OTHER INFORMATION: Xaa is Pro, Arg, Leu, Val, Ser, Asp, Ile, Asn or
93 Thr
94 <220> FEATURE:
95 <221> NAME/KEY: VARIANT
96 <222> LOCATION: (11)...(11)
97 <223> OTHER INFORMATION: Xaa is any residue except Ala, Cys, Glu, His, Ile,
98 Pro, Trp or Val

RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/021,963

TIME: 17:53:17

Input Set : N:\Crf3\RULE60\10021963.raw

Output Set: N:\CRF3\01172002\J021963.raw

99 <220> FEATURE:
100 <221> NAME/KEY: VARIANT
101 <222> LOCATION: (12)...(12)
102 <223> OTHER INFORMATION: Xaa is Arg, Lys, Ala, Asp, Gln, Phe, Gly, Glu, Thr
103 or Ser
104 <220> FEATURE:
105 <221> NAME/KEY: VARIANT
106 <222> LOCATION: (13)...(13)
107 <223> OTHER INFORMATION: Xaa is any residue except Asp, Cys, Glu, Pro or Thr
108 <220> FEATURE:
109 <221> NAME/KEY: VARIANT
110 <222> LOCATION: (14)...(14)
111 <223> OTHER INFORMATION: Xaa is any residue except Arg, Asn, Cys, Gly, His, Ser,
112 <223> OTHER INFORMATION: Trp or Tyr
113 <220> FEATURE:
114 <221> NAME/KEY: VARIANT
115 <222> LOCATION: (15)...(15)
116 <223> OTHER INFORMATION: Xaa is any residue except Ala, Asp, Cys, Gly, His, Met,
117 <223> OTHER INFORMATION: Trp or Tyr
118 <220> FEATURE:
119 <221> NAME/KEY: VARIANT
120 <222> LOCATION: (16)...(16)
121 <223> OTHER INFORMATION: Xaa is Ser, Ala, Arg, Val, Gln, Lys, Leu, Gly or Ile
122 <220> FEATURE:
123 <221> NAME/KEY: VARIANT
124 <222> LOCATION: (17)...(17)
125 <223> OTHER INFORMATION: Xaa is Phe, Tyr, Ile, Trp or Leu
126 <220> FEATURE:
127 <221> NAME/KEY: VARIANT
128 <222> LOCATION: (18)...(18)
129 <223> OTHER INFORMATION: Xaa is Tyr, His, Phe, Trp, Asn or Ala
130 <220> FEATURE:
131 <221> NAME/KEY: VARIANT
132 <222> LOCATION: (19)...(19)
133 <223> OTHER INFORMATION: Xaa is Tyr or Phe
134 <220> FEATURE:
135 <221> NAME/KEY: VARIANT
136 <222> LOCATION: (20)...(20)
137 <223> OTHER INFORMATION: Xaa is Lys, Asn, Ser or Asp
138 <220> FEATURE:
139 <221> NAME/KEY: VARIANT
140 <222> LOCATION: (21)...(21)
141 <223> OTHER INFORMATION: Xaa is any residue except Asp, Cys, Glu, His or Tyr
142 <220> FEATURE:
143 <221> NAME/KEY: VARIANT
144 <222> LOCATION: (22)...(22)
145 <223> OTHER INFORMATION: Xaa is any residue except Cys, Met, Pro or Trp
146 <220> FEATURE:
147 <221> NAME/KEY: VARIANT

RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/021,963

TIME: 17:53:17

Input Set : N:\Crf3\RULE60\10021963.raw

Output Set: N:\CRF3\01172002\J021963.raw

148 <222> LOCATION: (23)...(23)
149 <223> OTHER INFORMATION: Xaa is Ala, Lys, Ser, Leu, Thr, Ile, Gln, Glu, Tyr or
150 Val
151 <220> FEATURE:
152 <221> NAME/KEY: VARIANT
153 <222> LOCATION: (24)...(24)
154 <223> OTHER INFORMATION: Xaa is Lys, Gln, Asn, His, Gly, Arg or Met
155 <220> FEATURE:
156 <221> NAME/KEY: VARIANT
157 <222> LOCATION: (25)...(25)
158 <223> OTHER INFORMATION: Xaa is any residue except Asn, Asp, Cys, His, Ile, Pro,
159 <223> OTHER INFORMATION: Trp, Tyr or Val
160 <220> FEATURE:
161 <221> NAME/KEY: VARIANT
162 <222> LOCATION: (27)...(27)
163 <223> OTHER INFORMATION: Xaa is any residue except Cys, Gly, Phe, Pro, Ser or
164 Trp
165 <220> FEATURE:
166 <221> NAME/KEY: VARIANT
167 <222> LOCATION: (28)...(28)
168 <223> OTHER INFORMATION: Xaa is any residue except Asp, Cys, His, Ile, Phe, Trp
169 <223> OTHER INFORMATION: or Tyr
170 <220> FEATURE:
171 <221> NAME/KEY: VARIANT
172 <222> LOCATION: (29)...(29)
173 <223> OTHER INFORMATION: Xaa is Phe or Tyr
174 <220> FEATURE:
175 <221> NAME/KEY: VARIANT
176 <222> LOCATION: (30)...(30)
177 <223> OTHER INFORMATION: Xaa is any residue except Arg, Cys, Gly or Met
178 <220> FEATURE:
179 <221> NAME/KEY: VARIANT
180 <222> LOCATION: (31)...(31)
181 <223> OTHER INFORMATION: Xaa is Tyr, Trp, Phe or Asp
182 <220> FEATURE:
183 <221> NAME/KEY: VARIANT
184 <222> LOCATION: (32)...(32)
185 <223> OTHER INFORMATION: Xaa is Ser, Gly or Thr
186 <220> FEATURE:
187 <221> NAME/KEY: VARIANT
188 <222> LOCATION: (33)...(33)
189 <223> OTHER INFORMATION: Xaa is Gly or Ile
190 <220> FEATURE:
191 <221> NAME/KEY: VARIANT
192 <222> LOCATION: (35)...(35)
193 <223> OTHER INFORMATION: Xaa is Gly, Lys, Arg, Pro, Gln, Leu, Glu, Asn or Met
194 <220> FEATURE:
195 <221> NAME/KEY: VARIANT
196 <222> LOCATION: (36)...(36)

RAW SEQUENCE LISTING

DATE: 01/17/2002

PATENT APPLICATION: US/10/021,963

TIME: 17:53:17

Input Set : N:\Crf3\RULE60\10021963.raw

Output Set: N:\CRF3\01172002\J021963.raw

197 <223> OTHER INFORMATION: Xaa is Gly, Lys or Ala
198 <220> FEATURE:
199 <221> NAME/KEY: VARIANT
200 <222> LOCATION: (37)...(37)
201 <223> OTHER INFORMATION: Xaa is Asn, Lys or Ser
202 <220> FEATURE:
203 <221> NAME/KEY: VARIANT
204 <222> LOCATION: (38)...(38)
205 <223> OTHER INFORMATION: Xaa is any residue except Cys, His, Ile, Phe, Pro, Thr,
206 <223> OTHER INFORMATION: Trp, Tyr or Val
207 <220> FEATURE:
208 <221> NAME/KEY: VARIANT
209 <222> LOCATION: (39)...(39)
210 <223> OTHER INFORMATION: Xaa is Asn or Tyr
211 <220> FEATURE:
212 <221> NAME/KEY: VARIANT
213 <222> LOCATION: (40)...(40)
214 <223> OTHER INFORMATION: Xaa is Arg, Asn, Lys, Gln or Val
215 <220> FEATURE:
216 <221> NAME/KEY: VARIANT
217 <222> LOCATION: (41)...(41)
218 <223> OTHER INFORMATION: Xaa is Phe, Tyr or Asp
219 <220> FEATURE:
220 <221> NAME/KEY: VARIANT
221 <222> LOCATION: (42)...(42)
222 <223> OTHER INFORMATION: Xaa is any residue except Cys, Gln, Gly, Phe or Trp
223 <220> FEATURE:
224 <221> NAME/KEY: VARIANT
225 <222> LOCATION: (43)...(43)
226 <223> OTHER INFORMATION: Xaa is Thr, Ser, Arg, Lys or Asp
227 <220> FEATURE:
228 <221> NAME/KEY: VARIANT
229 <222> LOCATION: (44)...(44)
230 <223> OTHER INFORMATION: Xaa is Ile, Leu, Trp, Arg, Lys, Thr, Glu, Ala, Gln or
231 Val
232 <220> FEATURE:
233 <221> NAME/KEY: VARIANT
234 <222> LOCATION: (45)...(45)
235 <223> OTHER INFORMATION: Xaa is Glu, Asp, Ala, His, Met, Val, Gln, Lys, Arg or
236 Pro
237 <220> FEATURE:
238 <221> NAME/KEY: VARIANT
239 <222> LOCATION: (46)...(46)
240 <223> OTHER INFORMATION: Xaa is Glu, Lys, Gln, Asp, Ala, Tyr or Ser
241 <220> FEATURE:
242 <221> NAME/KEY: VARIANT
243 <222> LOCATION: (48)...(48)
244 <223> OTHER INFORMATION: Xaa is any residue except Ala, Cys, Gly, Phe, Pro, Ser,
245 <223> OTHER INFORMATION: Thr, Trp or Tyr

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/021,963

DATE: 01/17/2002

TIME: 17:53:18

Input Set : N:\Crf3\RULE60\10021963.raw

Output Set: N:\CRF3\01172002\J021963.raw

L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4